LASYSTEMS - Brusselsesteenweg 208 - 1730 Asse - Belgium
Phone: +32-2-4531312 - Fax: +32-2-4531763
E-mail: info@lasystems.be

ASUS H97M-E (90MB0IQ0-M0EAY5)

Intel Socket 1150, Intel H97, 4x DIMM Dual Channel, Intel HD Graphics, PCIe, Gigabit Ethernet, 4x SATA3, USB 3.0/2.0, 64 Mb UEFI AMI, mATX

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Price details:

Price excl. VAT: 81.78 €
Eco fees: 0.08 €
VAT 21 %: 17.19 €

Product details:

Product code: 90MB0IQ0-M0EAY5
EAN: 4716659759461
Manufacturer: ASUS

99.05 €

* VAT included

We are the world's biggest motherboard manufacturer, and renowned our design thinking that revolves around users - just like you. Our engineers employ exacting standards to guarantee quality throughout the product's life, choosing the finest components for real-world protection. Our motherboards are proven to be compatible with more than 1,000 components and devices, and undergo a minimum of 7,000 hours of strict validation. That gives you the peace of mind of knowing that ASUS motherboards are fit for all environments and applications. To build your PC with the best foundations, build it with an ASUS motherboard.

ASUS 5X Protection
Hardware safeguards to ensure long-term durability

Our be-the-best ethos underscores the choice of every single component that goes into your ASUS motherboard. We focus relentlessly on quality to ensure long-term system reliability and performance.

Precise digital power control with ASUS DIGI+ VRM
Voltage regulator modules (VRMs) are among the most essential motherboard components. A good VRM intelligently delivers CPU power based on actual needs at any given time. ASUS was first with digital power design featuring faster sensing and response to deliver precise CPU power on demand. This great accuracy reduces energy waste and of course improves system stability thanks to more consistent delivery.

Enhanced DRAM overcurrent protection
Onboard resettable fuses prevent overcurrent and short-circuit damage. This extends beyond I/O ports to DRAM to safeguard the lifespan of both your system and connected device.

5K-hr solid-state capacitors that last 2.5X longer
Solid-state capacitors are able to withstand extreme temperatures of up to 105°C for as long as 5,000 hours - that's two-and-a-half (2.5X) times longer than traditional capacitors. This exceptional durability means superb real-world endurance to more typical PC operating temperatures, ensuring that ASUS motherboards continue working longer.

Stainless-steel back I/O that lasts 3X longer
ASUS motherboard back I/O panels are made from strong and corrosion-resistant stainless steel, which is bonded with a thin layer of chromium oxide to enhance anti-corrosive properties. Passing 72-hour spray salt endurance tests, ASUS stainless steel back I/O panels have a lifespan that's three times (3X) longer compared to ordinary panels.

ESD Guards for protection from electrostatic discharge
Electrostatic discharge (ESD) can happen suddenly, and its damaging effects are easily underestimated. ASUS ESD Guards are tested to very high standards, capable of up to +/- 10kV for air discharge and +/-6kV for contact discharge. We employ an active protective circuit design to guard your system against electrostatic interference and damage, providing greater component longevity.

Proven compatibility
Having the freedom to pick and choose the parts that go into your machine is at the heart of PC DIY. Our extensive certification program focuses on providing the very best compatibility with the widest range of components and devices, giving you the freedom to build and upgrade without frustration. Compatible today and compatible far into the future - that's the ASUS way.

Tested - 1,000+ compatible CPUs, memory modules, graphics cards and more
Every 9 Series motherboard is compatible with thousands of devices. Our engineers fit and assess both server and consumer CPUs, hundreds of memory modules, dozens of graphics cards, loads of storage devices, power supplies, network devices, displays, optical drives, peripherals and many more. We do this to give you complete confidence in our products and their superb compatibility.

View our Qualified Vendor List (QVL) online
We're so confident in our 9 Series motherboards' superior compatibility that we publish our entire QVL for all to see - delivering you more choices for worry-free PC-building experiences. There are no gaps in our QVL: every compatible component is on the list for all to see. To check that a particular component or device is compatible with your motherboard, just reference the QVL for instant reassurance.

Top-to-bottom reliability
Our motherboards have superb endurance. We verify this by subjecting every board to over 7,000 hours of stringent tests. A barrage of burn-in, environmental, compatibility, software and safety tests confirm that our motherboards are exceptionally robust - with reliability that surpasses industry standards.

Extensive testing for extreme reliability, compatibility and safety
Each motherboard is subjected to extended reliability testing under heavy load conditions, from the transportation to daily operations, to make sure they are delivered to you in perfect condition. Trials include temperature and humidity, burn-in, power on/off, power consumption, insertion and thermal-shock testing among many others. Every certified-compatible component puts through an up to 24-hour aging test to ensure trouble-free operation every day - no matter what you fit or attach and no matter what you do!

Flawless audio that makes you part of the game
Crystal Sound 2

Crystal Sound 2 makes short work of optimizing audio settings for the way you want to listen, be it gaming, chatting, watching movies or relaxing to your favorite music. Onboard physical shielding, professional engineered design and premium components, including Japanese-made audio capacitors and operational amplifiers (op-amps), result in sound output that has exceptional clarity and fidelity. Discover a whole new dimension of superior audio and get ready to rule!

Ultimate cooling and quietness with Fan Xpert 2+
Fan Xpert 2+ is an extremely advanced fan-management tool that puts 4-pin and 3-pin(PWM/DC) case fan controls in one place, allowing you to control 3-pin case fans with the same precision as that offered by 4-pin connectors - so you'll have quieter fans and more efficient operation. It also scans each fan's characteristics and intelligently delivers custom settings for each fan based on the dedicated area temperatures. With Fan Xpert 2+, every fan achieves the best balance of cooling, performance and quiet operation.

Ultra-fast, always!

170% faster transfer speeds with USB 3.0 Boost
ASUS USB 3.0 Boost technology supports UASP (USB Attached SCSI Protocol) USB 3.0 in Windows 8. With USB 3.0 Boost technology, a USB device's transmission speed is significantly increased up to 170%, adding to already fast USB 3.0 performance. ASUS software automatically accelerates data rates for compatible USB 3.0 peripherals without any user interaction.

Speed up your system with M.2
With two native PCI Express 2.0 bandwidth, M.2 supports up to 10Gbit/s data-transfer speeds. It is the perfect choice for an operating system drive, making your whole PC work that much faster. It supports Intel® Rapid Storage Technology to ensure even faster access to data, refresh applications automatically and awake from sleep in just seconds!

PC DIY has never been this easy
We understand how you use your PC. From assembly, system setting and monitoring, and to firmware and hardware updates - we're all about making your life easier. That's why we never stop developing new and exciting DIY opportunities to make PC DIY easy, fun and free from hassle!

Your PC, your world
ASUS HomeCloud creates a world without boundaries. It lets you access your PC remotely, stream multimedia content to wherever you want, and manage all your stuff from anywhere - no matter where it's stored. Use the built-in Wake on WAN feature to remotely wake and control your PC with a single smart device, anywhere and anytime. It even turns your hard drive into a private cloud, removing worries about storage limits. With HomeCloud, your PC becomes the gateway to your world.

A digital PC hub perfect for sharing and home theater
Media Streamer

Enjoy your PC's multimedia content -anywhere! Pipe music from your PC while sipping coffee in a café or sit back with

friends and stream a favorite movie to a smart TV. With ASUS Media Streamer, your entertainment goes wherever you go.

Intel CPU and chipset features

Intel® LGA1150 4th, New 4th & 5th Generation Core i7/Core i5/Core i3/Pentium®/Celeron® Processors Ready

This motherboard supports Intel® 4th , New 4th and 5th Generation Core i7/i5/i3/Pentium®/Celeron® processors in the LGA1150 package, with iGPU, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 3.0/2.0 lanes. This provides great graphics performance.
Intel® H97 Express Chipset Intel® LGA1150 4th, New 4th & 5th Generation Core i7/Core i5/Core i3/Pentium®/Celeron® Processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, H97 provides a maximum 6 USB 3.0 ports, 6 SATA 6Gbit/s ports and 10Gbit/s M.2 support for faster data retrieval. Moreover, the Intel® H97 Express Chipset also supports iGPU functions, letting users enjoy the latest Intel integrated graphics performance.

Intel® Smart Response Technology
SSD speed with HDD capacity

Uses an installed fast SSD (min18.6GB available capacity required) as a cache for frequently-accessed data. Key benefits include reduced load and wait times, and lower power consumption through the elimination of unnecessary hard drive spin. This technology combines SSD performance with hard drive capacity, operating up to 6X faster than a hard drive-only system.

Intel® Smart Connect Technology
Auto application refresh and shorter wait times

Your computer can receive web updates with fresh content for selected applications, even when the system is in sleep mode. This means less time waiting for applications to update and sync with the cloud, leading to a more efficient computing experience.

Intel® Rapid Start Technology
Instantly awaken your PC from sleep mode

Allows your computer to quickly resume from a low-power hibernate state in seconds. Saving your system memory to the designated SSD, it provides your computer a faster wake-up response time, while still keeping energy use low.

Main specifications:

Memory

Supported memory types:	DDR3-SDRAM
Memory slots type:	DIMM
Memory channels:	Dual
Non-ECC:	Y
Supported memory clock speeds:	1333, 1600 MHz
Maximum internal memory:	32 GB
Unbuffered memory:	Y

Processor

Processor family:	Intel
Compatible processor series:	Celeron, Core i3, Core i5, Core i7, Pentium
Processor socket:	Socket H3 (LGA 1150)

Internal I/O

USB 2.0 connectors:	3
USB 3.0 connectors:	1
Supported hard disk drive interfaces:	Serial ATA III
Number of SATA connectors:	4
S/PDIF out connector:	Y
CPU fan connector:	Y
Number of COM connectors:	1
ATX Power connector (24-pin):	Y
Chassis intrusion connector:	Y
Number of chassis fan connectors:	2
Front panel audio connector:	Y

TPM connector:	Y
Number of SATA III connectors:	4

Back panel I/O ports

USB 2.0 ports quantity:	2
USB 3.0 ports quantity:	4
Ethernet LAN (RJ-45) ports:	1
PS/2 ports quantity:	2
Headphone outputs:	1
Microphone in:	Y
VGA (D-Sub) ports quantity:	1
DVI-D ports quantity:	1
HDMI ports quantity:	1

Networking

Ethernet LAN:	Y
LAN controller:	Realtek RTL8111GR
Ethernet interface type:	Gigabit

Performance

Component for:	PC
Motherboard chipset family:	Intel
Motherboard chipset:	Intel H97
Motherboard form factor:	Micro ATX
Audio output channels:	7.1
Windows operating systems supported:	Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 8, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64, Windows 8.1, Windows 8.1 Enterprise, Windows 8.1 Enterprise x64, Windows 8.1 Pro, Windows 8.1 Pro x64, Windows 8.1 x64

Graphics

Maximum graphics adapter memory:	512 MB
Graphics adapter:	HD Graphics
Graphics adapter family:	Intel
Maximum resolution:	4096 x 2160 pixels
On-board graphics adapter:	Y
Number of displays supported:	3

Expansion slots

PCI Express x1 (Gen 2.x) slots:	3
PCI Express x16 (Gen 3.x) slots:	1

BIOS

BIOS type:	UEFI AMI
BIOS memory size:	8 MB
ACPI version:	5.0
Clear CMOS jumper:	Y

Weight & dimensions

Width:	244 mm
Depth:	198 mm

Packaging content

Cables included:	SATA
Drivers included:	Y

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